



TREATED WITH

ELECTROSTATIC
AGRO SPRAY SYSTEM

MARTIGNANI



5

GOOD REASONS

FOR CHOOSING MARTIGNANI MIST BLOWERS WITH THE ELECTROSTATIC DEVICE (Since 1981, World Leader in electrostatic spraying)



1

Operating advantages, compared to a conventional sprayer:

- Reduction (about 85%) in spray drift & off target losses in the air
- Reduction (about 70%) in spray drift & off target losses on the ground
- Perfect and uniform distribution of the agrochemical
- Chemicals full exploitation (fewer quantity per hectare)
- Faster working
- Adaptable to any cultivation form



2

Savings:

- Time: about 60%
- Labour: about 60%
- Chemicals: about 60%



3

Production quality:

- Healthier crops
- Fruits without imperfections
- Fruits and wine with "zero" or minimum legal chemicals residues



4

Life quality:

- Environmental impact reduction
- Contamination dangers for operators: about -75%
- Guarantee of health for the consumers



5

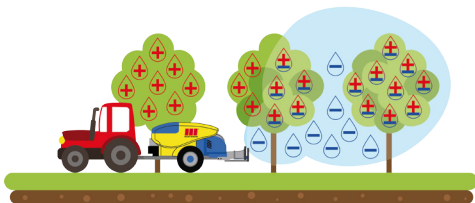
Attestations:

Tested (with published results) worldwide by several eminent Research Institutes (three in Italy)

Award-Winning Sprayers:

- SIMA - Paris - France (Golden Medal 1985)
- EIMA - Bologna - Italy (Technical Innovation 1988, 2004, 2014)
- AGRIBEX - Bruxelles - Belgium (Silver Spike 1992)
- FIERAGRICOLA - Verone - Italy (Technical Innovation 1994, 1995, 2004, 2016)
- EIMA - Bologna - Italy (Environment Award 2016)

60
MARTIGNANI
1958 - 2018



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**SMART
SOLUTIONS**
for a
**MODERN &
ECO-FRIENDLY
FARMING**

Electrostatic Mist Blower

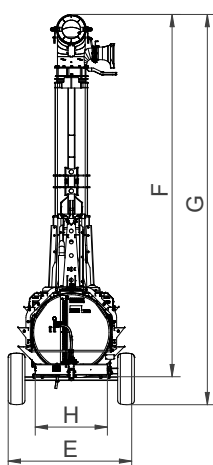
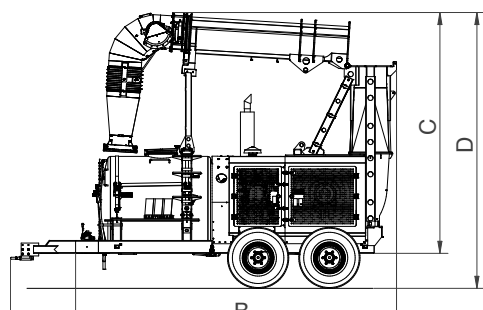
WHIRLWIND M819 MASTER PLUS



Since 2000, a world supremacy in the bananas ground spraying, more than 50,000 hectares are sprayed with total success, from the Philippines to Costa Rica.



WHIRLWIND M819 MASTER PLUS



Description	Model Whirlwind M819 Plus	
	Truck Mounted	Trailed
Capacity (liters)		
Chemical Tank (liters)	2500	2500
Diesel Tank (liters)	200	200
Oil Tank (liters)	17	17
Weight (kg)		
(weight) Empty	4350	4560
(weight) Full	6890	7100
Tyres		
Tyres Number	-	4 N
13.0 / 65 - 18	-	✓
Drawbar		
Eye Type Drawbar	-	✓
Dimensions (mm)		
A	-	6000
B	4800	-
C	3730	-
D	-	4230
E	-	2350
F	6620	-
G	-	7120
H	-	1320
Technical Features of the Sprayer		
Engine	J. Deere D4045H-1725F-12, 140HP	
Operating Pressure	1,5 bar	
Pump Flow	250 lt/min	
Nozzles Quantity	18 N	
Fan Rotating Speed (rpm)	1850	
Electrostatic Device	Yes	
Gun Rotations	Hydraulic by Remote Control	



- **ENGINE:** Diesel Water cooled John Deere Mod. D4045H - 4 Cyl. Turbo - Intercooler -140 HP
- **DIESEL FUEL TANK:** 200 l capacity
- **ELECTRIC REMOTE CONTROL UNIT** from truck or tractor cabin
- **FRAME:** square and flat for truck beds (truck mounted version) or with adjustable drawbar, 4 wheels and 2 axles (tractor pulled version)
- **TANK:** made in stainless steel, 2500 l or 4000 l capacity, including a stainless steel basket for quick chemicals premixing
- **FAN:** centrifugal type with double air intake and very high efficiency (45000 m³/hour air volume at 90 m/s speed)
- **GUN HEAD** with d.400 mm outlet and 12 Nozzles; movable by 335° around the horizontal plane and 40° around the vertical by a hydraulic remote control from truck cabin or tractor seat - additional spray head of 90° angle with 6 nozzles for close spray. The gun head is equipped by lights for overnight spray and the whole assembly can be folded up and down hydraulically for transport or stocking purposes
- **PUMP:** stainless steel self-priming (250 l/m flow rate) centrifugal type to feed the nozzles and get a perfect agitation of the chemicals mixture
- **LIQUID OUTPUT ADJUSTMENT:** by 3 metering valves each one with stainless steel graduated scale (from 0 to 1300 l/hour each at 1.5 bar/22 psi of constant pressure) thus allowing to spray an average from 0 to 200 l/hectare with no nozzles and/or pressure change
- **NOZZLES:** with 4 mm orifice no clogging, no wear, no maintenance
- **ELESTROSTATIC DEVICE** to reduce drift and enhance coverage
- **TANK SELF-FILLING** device with 6m long hose + quick hose connection

Avg. spray distance: 40 to 50 m

